



olivetti

ET 231

Electronic memory typewriter with display

Working memory for text recording

Permanent memory for storing frequently used phrases and formats

Entry and recall display

Interchangeable «daisy wheel» printing element and ribbon cartridge



Makes work easier

Because its logic automates those functions that were traditionally performed manually by the typist. Modifications, additions, column layout, table format, title centering are all done rapidly and simply, with a great saving of time and can be always checked on the display.

Makes work automatic

Because it stores in the working memory everything that is typed on the keyboard and records frequently used phrases and sentences. Stored texts can be re-used, corrected, and added to at any time by recalling the memory content through the display which besides pinpointing errors shows the operating status and guides the typist throughout with simple messages.

First drafts can be the final copy

Because the display enables the typist to see the current line of typing and correct any errors before they are committed to paper, so that every typescript could be ready for use first time.

Aids to the company's image

Because interchangeable typestyles and ribbon cartridges give elegance and character to every document produced – circulars, confidential letters, reports – all with their own unmistakable style.

The ET 231 consists of:

- an **electronic keyboard** with selector switches and function keys
- a **20-character entry display**
- a **print unit** with single interchangeable «daisy wheel» printhead
- a **working memory (RAM)** with a capacity of 8 or 16 kbytes
- a **permanent memory**, for recording recurrent phrases and formats, with a capacity of 1 kbyte
- a **central unit**.

Keyboard

Alphanumeric and function keys. 45 alphanumeric keys, giving a total of 100 characters.

REPEAT key which enables all alphanumeric keys and certain function keys to repeat.

Two shift keys.

Shift lock (with built-in signal light).

Automatic repeating space bar.

Automatic repeating return and vertical spacing.

Return without vertical spacing.

Vertical spacing without return.

Tabulator setting key.

Tabulator clearing key.

Tabulator.

Automatic cancel key.

Automatic repeating backspace key.

CODE key for allocating special functions to certain keys.

Forward key for the display.

Margin setting key.

Margin clearing key.

Paragraph indentation key (with built-in signal light).

Backspace key for return of one elementary space.

End-of-text key.

SRCH key for modifying text stored in the working memory (with built-in signal light).

PARA key for operating at paragraph level.

LINE key for operating at line level.

COMMUNICATION key, for on-line connection (with built-in signal light). START key for printing or modifications.

P key, for defining page format.



Entry display, with electronic correction

Capacity: 20 characters, 15 for displaying data entered on the keyboard, 1 separator and 4 service characters.

Keys are provided for the following display functions:

- shifting forward and backward
- cancellation
- insertion and replacement.

Four-position spacing selector

constant spacing $\frac{1}{10}$ "
(typing pitch 2.54 mm)

constant spacing $\frac{1}{2}$ "
(typing pitch 2.12 mm)

constant spacing $\frac{1}{5}$ " Mikron
(typing pitch 1.69 mm)

proportional spacing (PS)
(with $\frac{1}{60}$ " basic unit).

Vertical spacing selector

Five vertical spacings.

Four-position editing selector

XXX - normal print

XXX - normal print underlined

XXX - boldface

XXX - boldface underlined.

Three-position print selector

W/W - printing occurs after a space or a tab

RIGHT - copy is printed with right-hand margin justification

NORM - for traditional typing margin.

Five-position operating mode selector

LIST - for control of texts stored in the working memory

M-P - for modification and printing of the contents of the working memory

ENTER - for recording in the working memory

STOR - for storing recurrent phrases and page formats in the permanent memory

TPWR - traditional typewriter status.

Three-position keyboard and line format selector

KB I - for using the national keyboard

KB II - for using the second keyboard fitted with supplementary characters for typing in various foreign languages

LINE FORM - for line format definition.

Print unit

Speed up to 20 cps.

Fixed carriage to take paper up to 17" wide.

Length of printing line: 13.2".

The upper part of the machine houses the following devices:

- platen release knob
- automatic sheet feed and memory line finder lever
- sliding paper guide
- paper release lever
- bail rod release lever
- adjustable anti-glare shield.

The internal portion of the machine (under the cover) houses the following additional devices:

- type impact control
- printhead control lever to be adjusted according to the thickness of the documents.

Interchangeable ribbon cartridge

Available in four versions:

- fabric: capacity 500,000 characters
- carbon: capacity 80,000 characters
- correctable carbon: capacity approximately 80,000 characters, available in various colours
- multiuse carbon: capacity 300,000 characters.

Corrector ribbon

Capacity approximately 2,000 characters.

Available in two versions:

- LIFT-OFF, for use with correctable carbon ribbon
- COVER-UP, for use with fabric, carbon or multiuse carbon ribbon.

Printing element

Single interchangeable «daisy wheel» printhead.

Available in a variety of typesstyles according to the printing pitch used.

Optional devices

ASF - Automatic Single Sheet Feed.

SF - Sprocket Feed for continuous stationery.

LINE COMMUNICATION - On-line connection.

16-kbyte module for working memory expansion.

Central logic unit

A microprocessor that controls those units which make up the typewriter and activates the related functions.

Electrical specification

Power supply: 115-220 V.

Frequency: 50-60 Hz.

Dimensions and weight

Width: 59.3 cm

Height: 20.4 cm

Depth: 49.2 cm

Weight: 19.3 kg



APPLICATIONS

The ET 231 is designed for a modern secretarial office, for automating typewritten communication. There are five operating modes:

ENTER

For recording the keyed-in data (text and commands) in the working memory, showing it on the display for checking and correction if necessary before it is printed and stored. The contents of the working memory can be immediately printed even with parameters different from those used in the text entry stage (length of line, printing pitch, etc.).

M-P

For printing the contents of the working memory in accordance with the instructions given by the typist: layout, right-hand margin justification, etc.

Texts recorded in the working memory can be modified and updated as required.

The first draft can in fact be revised with the use of the display to make amendments, deletions, replacements of paragraphs, lines, words, characters, thus obviating much retyping.

The typist can interrupt and resume printing at any time by means of the console controls.

Through a simple operational procedure, stop codes can be inserted into the text for entering variable data for personalizing the document. The typist can also determine the number of lines to be printed on each page: at that point printing automatically stops to enable a fresh page to be inserted.

When the ET 231 is equipped with a sprocket feed for continuous stationery or an automatic single sheet feed it can handle work cycles in unattended mode. It automatically stops printing at the end of the documents, positions the next one and restarts printing.

STOR

For storing recurrent phrases and page formats in the permanent memory so that printed forms can be completed automatically.

LIST

For displaying the list of texts recorded in the working memory.

TPWR

For using the ET 231 as a conventional typewriter, with printing of the text as it is typed, character by character and, if required, with visualization on the display.

PRINCIPAL FEATURES

- Electronic correction on display.
- Automatic deletion on paper.
- Automatic return.
- Right-hand margin justification.
- Automatic centering and justification.
- Boldface, automatic underlining, reverse printing.
- Paragraph indentation.
- Automatic vertical line printing.
- Alphanumeric and decimal tabulation.
- Automatic column layout.
- Automatic paper positioning.
- Automatic end-of-page signal.
- Bidirectional half-vertical spacing control for typing subscripts and superscripts.
- Display of operator messages.
- Permanent memory for storing recurrent phrases and formats.
- Stop codes for entering variable data.
- Direct search in the memory by «search key».
- Global search and replacement.
- Sequential search in the memory by paragraphs, lines, words, characters.
- Automatic text linking.
- Printing by paragraph or line.
- Repetitive text playback.
- Automatic text re-editing.
- Character editing modification.
- Overlapped character printing.
- Line format storage.

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